

7. Mixture according to one or more of the preceding claims, wherein the stabiliser system contains

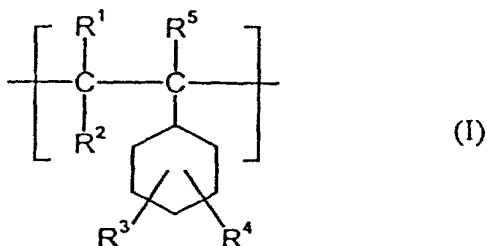
5 to 60 parts by wt. (based on component B) of compound(s) corresponding to formula I

10 to 60 parts by wt. (based on component B) of compound(s) corresponding to formula II

10 to 60 parts by wt. (based on component B) of compound(s) corresponding to formula III.

8. Mixture according to one or more of the preceding claims, containing vinylcyclohexane-based polymer or copolymer, wherein the comonomers are selected from at least one monomer of the group comprising olefins, alkyl esters of acrylic acid or methacrylic acid, unsaturated cycloaliphatic hydrocarbons, styrenes alkylated on the nucleus,  $\alpha$ -methylstyrene, divinyl benzene, vinyl esters, vinyl acids, vinyl ethers, vinyl acetate, vinyl cyanides, maleic anhydride.

9. Mixture containing polymer according to claim 7, wherein the vinylcyclohexane-based polymer has a repeating structural unit corresponding to the formula



wherein

$R^3$  and  $R^4$ , independently of each other, represent hydrogen or  $C_1$ - $C_6$ -alkyl or  
 $R^3$  and  $R^4$  together represent alkylene,

5  $R^1$ ,  $R^2$  and  $R^5$ , independently of each other, represent hydrogen or  $C_1$ - $C_6$ -  
alkyl.

10. Mixture according to one or more of the preceding claims, but with a predominantly syndiotactic diad configuration of the VCH polymer.
- 10 11. Mixture according to one or more of claims 1 to 12, containing additives selected from at least one of the group comprising processing aids, nucleating agents, mould release agents, dyes, pigments, stabilisers and antistatic agents.
- 15 12. Process for the preparation of a mixture according to claim 1, wherein the individual components and optionally additives are mixed and compounded.
13. Use of the mixture according to one or more of the preceding claims for the manufacture of moulded articles and films.
- 20 14. Use according to claim 13 for the manufacture of optical data carriers.
15. Moulded articles and films obtainable from mixtures according to one or more of claims 1 to 14.
- 25 16. Optical data carriers obtainable from mixtures according to one or more of the preceding claims.
17. Use of the stabiliser system according to claims 1 to 16 for the preparation of vinylcyclohexane-based polymers with improved thermostability.

Mixtures of vinylcyclohexane-based polymer/copolymer and stabiliser system

Abstract

Mixture containing A) vinylcyclohexane (VCH)-based polymer and B) stabiliser system containing lactone, sterically hindered phenol and phosphite components, process for the preparation and the use thereof for the manufacture of moulded articles, e.g., optical data stores.

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